AMSAT Weekly Satellite Report
Issue: WSR-177
Date: 2005-06-26
Sources: amsat-ans-2005-wsr-177.txt

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This report is organized into 4 parts.
Part 1 - operational analog amateur satellites.
Part 2 - operational digital amateur satellites.
Part 3 - non - operational satellites
Part 4 - proposed satellites

SB SAT @ AMSAT <KB9MMC $ANS-177.S1
WSR 177 Part 1 06/26/2005

AMSAT NEWS SERVICE BULLETIN 177.S1 FROM AMSAT HQ
SILVER SPRING, MD, JUNE 26, 2005
TO ALL RADIO AMATEURS
BID: $ANS-177.S1

VO-52 HAMSAT
Catalog Number: 28650
Launch Date: May 05,2005

Status: On orbit
Current Mode: U/V

Proposed frequencies:
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Indian transponder:
Uplink  : 435.225MHz to 435.275MHz LSB/CW
Downlink: 145.875MHz to 145.925MHz USB/CW
Beacom  : 145.940MHz continue carier signal

Dutch transponder:
Uplink  : 435.225MHz to 435.275MHz LSB/CW
Downlink: 145.875MHz to 145.925MHz USB/CW
Beacon  : 145.860MHz 12WPM with CW message

HAMSAT has been assigned the OSCAR designation VO-52.
[06192005]
=====
AO-51 ECHO
Catalog number: 28375
Launch date: June 29, 2004

Status: Testing
Curent Mode: PBBS - ON
      FM REPEATER - ON

Analog voice downlink:  435.300 MHz FM
Analog voice uplink:    145.920 MHz FM 67Hz PL tone
                       1268.700 MHz FM 67Hz PL tone

Digital Downlinks:      435.150 MHz FM, 38k4 Digital, PBP, 1 watt output
                       2401.200 MHz FM  38k4 bps, AX.25
Digital Uplink:         145.860 MHz FM, 9k6 Digital, Pacsat Broadcast
   Protocol (PBP)

Broadcast: PECHO-11
BBS:  PECHO-12


AO-51 Schedule of Modes for June 2005:

27 June
FM Repeater, V/U
Uplink: 145.920 MHz FM, 67 Hz PL Tone
Downlink 435.300 MHz FM
9k6 Digital, V/U, PBP BBS (Pacsat Broadcast Protocol BBS)
Uplink: 145.860 MHz FM, 9k6 PBP Digital
Downlink: 435.150 MHz FM, 9k6 PBP Digital

All dates are UTC.

From the Satellite Software Development Team:

Due to restrictions in the Satellite, there can be no digi functionality
on Echo at this time.

Explanation:
Random noise from a receiver that is fed through the demodulator and
into the SCC (a sort of smart UART) will cause interrupts to be sent to
the CPU. With Echo having 4 or 5 open receivers the number of interrupts
was enough to cause the CPU difficulties in getting normal processing
done in a timely fashion.  Basically, the CPU was locked up trying to
handle the interrupts. Echo is operating its SCC ports in a mode that
will only pass AX.25 packets beginning with a certain character, which
is called 'block' mode.  This configuration solved the interrupt
problem.  For Echo, with the call sign being "PACB or PECHO", only
packets beginning with the character 'P' can get through the SCC and
generate a CPU interrupt.

A digi packet has the call sign of the destination station first,
followed by the satellite (relay) call sign, and then the originator
call sign. Therefore, the digi packet will not get through the SCC
unless the destination station call sign begins wit   htheletter'P'.

A great deal of effort was put into solving this problem.  This solution
is the only one at the present time that has worked well enough to
implement in the Satellite.

[ANS thanks Mike, KE4AZN for the above information]

For further scheduled modes/tests, check out the Echo status page at:
http://www.amsat.org/amsat-new/echo/

Mike Kingery (KE4AZN) has released a upgrade to TimEcho to capture and
decode telemetry broadcast from Echo's digital downlink. TimeEcho
software and other Ao-51 ECHO information is available at:
http://web.infoave.net/~mkmk518/echo.htm

[ANS thanks Mike, KE4AZN for the above information]
[06262005]
=====
SO-50 SAUDISAT-1C
Catalog number: 27607
Launched: December 20, 2002

Status: Operational.

Uplink:    145.850 MHz (67.0 Hz PL tone) (See below for operating
          procedures)
Downlink:  436.795 MHz

There have been unconfirmed reports on the amsat-bb remailer that So-50 has
shifted downlink frequency as much as 5khz up. This both from Europe.

To switch the transmitter on, you need to send a CTCSS tone of  74.4  Hz.
The order of operation is thus: (allow for Doppler as necessary)

1) Transmit on 145.850 MHz with a tone of 74.4 Hz to arm
  the 10 minute timer on board the spacecraft.
2) Now transmit on 145.850 MHz (FM Voice) using 67.0 Hz to PT
  the repeater on and off within the 10 Minute window.
3) Sending the 74.4 tone again within the 10 minute window
  will reset the 10 minute timer.
[09122004]
=====
FO-29 JAS-2
Catalog number: 24278
Launch Date: August 17, 1996

Status: OPERATIONAL

Voice/CW Mode JA
Uplink:     145.90 to 146.00 MHz CW/LSB
Downlink:   435.80 to 435.90 MHz CW/USB
Beacon:     435.795 MHz

Digital Mode JD
Uplink:     145.850 145.870 145.910 MHz FM
Downlink:   435.910 MHz 1200-baud BPSK or 9600-baud FSK
Callsign:   8J1JCS
Digitalker: 435.910 MHz

Please send the reception reports to lab2 'at' jarl.or.jp.
Please use the subject line: 'FO-29 reception report'.

Mineo, JE9PEL, has an FO-29 satellite telemetry analysis program that will
automatically analyze all digital telemetry from the satellite (such as
current, voltage and temperature). FO29CWTE is available at:
http://www.ne.jp/asahi/hamradio/je9pel/
[03132005]
=====
AO-27 AMRAD
Catalog number: 22825
Launched: September 26, 1993

Status: Operational

Uplink:     145.850 MHz FM
Downlink:   436.795 MHz FM

The latest information on AO-27 from control operator Michael Wyrick,
N3UC (former N4USI), can be found at:
http://www.ao27.org

An AO-27 question-and-answer page is available on the AMSAT-NA web
site, with updates by Ray, W2RS. The URL is:
http://www.amsat.org/amsat/intro/ao27faq.html

[ANS thanks John, K6YK, for this week's AO-27 report]
[08292004]
=====
AO-7 AMSAT OSCAR 7
Catalog number: 07530
Launch Date: November 15, 1974

Status: Semi-operational in sunlight.
Return to active status: June 21,2002

```
Uplink:     145.850 to 145.950 MHz CW/USB Mode A
            432.125 to 432.175 MHz CW/LSB Mode B
Downlink:    29.400 to  29.500 MHz CW/USB Mode A
            145.975 to 145.925 MHz CW/USB Mode B
Beacon:     29.502 MHz, 145.972 MHz, 435.1 MHz, 2304.1 MHz

Emily, W0EEC has created a website to allow the users of AO-7 to record
contacts, observations and use of the satellite more effectively at:
http://www.emilyshouse.com/experthams/ao7/main.php
This includes the ability to log contacts.

Tim, K3TZ has written a program to decode AO-07 telemetry.
The program can be downloaded at:
http://www.qsl.net/k3tz/files/K3TZ_AO-07_Telemetry_Decoder_0.5.zip

For more AO-7 info:
http://www.amsat.org/amsat/sats/n7hpr/ao7.html
[11142004]
=====
INTERNATIONAL SPACE STATION (ISS) - ARISS
Catalog number: 25544
Launch date: November 20, 1998

Status: Operational
Current Mode: Packet (APRS-style connections)
Digipeater: Active

The current Expedition 11 crew is:
Commander Sergei Krikalev
Flight Engineer John Phillips

Worldwide packet uplink:   145.990 MHz FM
Region 1 voice uplink:     145.200 MHz FM
Region 2/3 voice uplink:   144.490 MHz FM
Worldwide downlink:        145.800 MHz FM

Repeater Uplink:           437.800 MHz FM
Repeater Downlink:         145.800 MHz FM
Doppler Shift is 10 KHz

Russian callsigns:                  RS0ISS, RZ3DZR
USA callsign:                       NA1SS
Packet station mailbox callsign:    RS0ISS-11
Packet station keyboard callsign:   RS0ISS-3
Digipeater callsign:                ARISS

The ISS daily crew schedule can be found at:
http://spaceflight.nasa.gov/station/timelines/
Remember that the crew operates on UTC time. Also, all of the time line is
NOT translated from Russian and posted.

More information is available at:
http://www.rac.ca/ariss
http://spaceflight.nasa.gov/station/reference/radio/
http://www.marexmg.org/fileshtml/unprotopage.html
http://www.issfanclub.com
http://oscar.dcarr.org/
[04242005]
NNNN
/EX

SB SAT @ AMSAT <KB9MMC $ANS-177.S2
WSR 177 Part 2 06/26/2005
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AMSAT NEWS SERVICE BULLETIN 177.S2 FROM AMSAT HQ
SILVER SPRING, MD, JUNE 26, 2005
TO ALL RADIO AMATEURS
BID: $ANS-177.S2

AO-51 ECHO
Catalog number: 28375
Launch date: June 29, 2004

Status: Testing
Curent Mode: PBBS - OFF
FM REPEATER - ON

Analog voice downlink: 435.300 MHz FM
Analog voice uplink: 145.920 MHz FM 67Hz PL tone
1268.700 MHz FM 67Hz PL tone

Digital Downlinks: 435.150 MHz FM, 38k4 Digital, PBP, 1 watt output
2401.200 MHz FM 38k4 bps, AX.25
Digital Uplink: 145.860 MHz FM, 9k6 Digital, Pacsat Broadcast
Protocol (PBP)

Broadcast: PECHO-11
BBS: PECHO-12

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All dates are UTC.

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handle the interrupts. Echo is operating its SCC ports in a mode that
will only pass AX.25 packets beginning with a certain character, which
is called 'block' mode. This configuration solved the interrupt
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unless the destination station call sign begins wit htheletter'P'.

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[ANS thanks Mike, KE4AZN for the above information]

For further scheduled modes/tests, check out the Echo status page at:
http://www.amsat.org/amsat-new/echo/

Mike Kingery (KE4AZN) has released a upgrade to TimEcho to capture and decode telemetry broadcast from Echo's digital downlink. TimeEcho software and other Ao-51 ECHO information is available at:
http://web.infoave.net/~mkmk518/echo.htm

[ANS thanks Mike, KE4AZN for the above information]
[06262005]
=====
GO-32 TECHSAT-1B
Catalog number: 25397
Launch Date: July 10, 1998

Status: Operational

Downlink: 435.225 MHz FM (9600-baud FSK)
(435.325 n/a - temperature problems)
Uplinks: 145.850, 145.890, 145.930 FM
1269.700, 1269.800, 1269.900 FM
Broadcast Callsign: 4XTECH-11
BBS Callsign: 4XTECH-12

More information of GO-32 can be found at:
http://www.iarc.org/techsat/techsat.html
[03132005]
=====
MO-46 TIUNGSAT-1
Catalog number: 26548
Launched: September 26, 2000

Status: Operational

Uplink: 145.850 or 145.925 MHz 9600-baud FSK
Downlink: 437.325 MHz
Broadcast callsign: MYSAT3-11
BBS: MYSAT3-12

TiungSat-1 is Malaysia's first micro-satellite and in addition to commercial land and weather imaging payloads offers FM and FSK Amateur Radio communication.

TiungSat-1, named after the mynah bird of Malaysia, was developed as a collaborative effort between the Malaysian government and Surrey Satellite Technology Ltd.
[05152005]
=====
AO-16 PACSAT
Catalog number: 20439
Launch Date: January 22, 1990

Status: Semi-operational, the digipeater command is on and open for APRS users.

Uplink: 145.90 145.92 145.94 145.96 MHz FM
(using 1200-baud Manchester FSK)
Downlink: 437.026 MHz SSB (1200-baud PSK)
Mode-S Beacon: 2401.1428 MHz
Broadcast Callsign: PACSAT-11

```
BBS:                PACSAT-12

A WOD collection of current graphics along with general information
and telemetry samples can be found at:
http://www.telecable.es/personales/ea1bcu
[05092004]
=====
UO-11 OSCAR-11
Catalog number: 14781
Launched: March 1, 1984

Status: Semi-operational?

Telemetry Downlink: 145.826 MHz. FM (1200-baud AFSK).
                    approx. 10 days ON, 10 days OFF
Mode-S Beacon:      2401.500 MHz. ... OFF
UHFBeacon:          435.025 MHz. ...  OFF

This from Clive, G3CWV:

There is a small chance that OSCAR-11 may have started transmitting
again between 08 June to 10 June.

The frequency is 145.826.

Any reception reports would be appreciated. Please reply direct to
Clive G3CWV (g3cwv@amsat.org), or post reports to AMSAT-BB.

[ANS thanks Clive, G3CWV for the above information]

More information on UO-11 OSCAR-11 can be found at:
http://www.users.zetnet.co.uk/clivew/
[06122005]
NNNN
/EX

SB SAT @ AMSAT <KB9MMC $ANS-177.S3
WSR 177 Part 3 06/26/2005

AMSAT NEWS SERVICE BULLETIN 177.S3 FROM AMSAT HQ
SILVER SPRING, MD, JUNE 26, 2005
TO ALL RADIO AMATEURS
BID: $ANS-177.S3

THE FOLLOWING ARE IN ORBIT BUT ARE
NON-OPERATIONAL AT THIS TIME:

POSAT-1 PO-28
Catalog Number: 22829
Launched : September 25, 1993

Status: Operational - Not open for Amatuer use

Downlink: 435.075 MHz
          435.275 MHz

Uplink:   145.925 MHz
          145.975 MHz

Broadcast callsign: POSAT1-11
BBS callsign: POSAT1-12

More information of POSAT-1 can be found at:
http://www.ee.surrey.ac.uk/SSC/CSER/UOSAT/missions/posat1.html
```

http://www.amsat.org/amsat/sats/n7hpr/po28.html
[08152004]
=====
AO-10 OSCAR 10
Catalog number: 14129
Launched: June 16, 1983

Status: Non-operational

Uplink:   435.030 to 435.180 MHz CW/LSB
Downlink: 145.975 to 145.825 MHz CW/USB
Beacon:   145.810 MHz (unmodulated carrier)

AO-10 has been locked into a Mode-B, 70-cm uplink and
2-meter downlink for several years.

W4SM has more information about the satellite at the following URL:
http://www.cstone.net/~w4sm/AO-10.html
[05092004]
=====
IO-26 ITAMSAT
Catalog number: 22826
Launch Date: September 26, 1993

Status: Non-operational

Uplink:             145.875 145.900 145.925 145.950 MHz FM (1200-baud)
Downlink:           435.812 MHz SSB
Broadcast Callsign: ITMSAT-11
BBS:                ITMSAT-12

Alberto E. Zagni - I2KBD reports on 02/13/05
The spacecraft is in MBL (safe mode) and is trasmitting just 6 channels
of telemetry. Temperatures and voltage are nominal, but there seems to
be a problem with the onboard receiver, refusing to accept commands.
The spacecraft was launched in 1993, thus nearing 12 years in orbit...

Best regards
Alberto E. Zagni - I2KBD
ITAMSAT Mission Director

More information of IO-26 can be found at:

http://joshua.micronet.it/english/itamsat/itamsathome.html
http://www.amsat.org/amsat/sats/n7hpr/io26.html
www.itamsat.org

[02132005]
=====
RS-12 RADIO SPORT RS-12
Catalog number: 21089
Launched: February 5, 1991

Status: Non-operational

Uplink:   21.210 to 21.250 MHz CW/USB
Downlink: 29.410 to 29.450 MHz CW/USB
Beacon:   29.408 MHz
Robot:    29.454 MHz
[05232004]
=====
RS-13 RADIO SPORT RS-13
Catalog number: 21089
Launched: February 5, 1991

```
Status: Non-operational

Uplink:      21.260 to  21.300 MHz CW/USB
Downlink:   145.860 to 145.900 MHz CW/USB
Beacon:     145.860 MHz
Robot:      145.908 MHz
[05232004]
=====
UO-14 UoSAT-3
Catalog number: 20437
Launched: January 22, 1990

Status: Non-operational

Uplink 145.975 MHz FM
Downlink 435.070 MHz FM
[05092004]
=====
UO-22 UOSAT
Catalog number: 21575
Launched: July 17, 1991

Status: Non-Operational

Uplink:             145.900 FM 9600-baud FSK
Downlink:           435.120 MHz FM
Broadcast Callsign: UOSAT5-11
BBS:                UOSAT5-12
[01092005]
=====
RS-15 RADIO SPORT RS-15
Catalog number: 23439
Launch Date: December 26, 1994

Status: Non-operational?

Uplink:      145.858 to 145.898 MHz CW/USB
Downlink:     29.354 to  29.394 MHz CW/USB
Beacon:       29.352 MHz (intermittent)
SSB meeting frequency:  29.380 MHz (unofficial)

John, KD6PAG reports on June 16, 2004 to ANS:
RS-15 beacon seemed to be back in the mode where it's a tone about 5 seconds
off and then 5 seconds on this morning.

ANS is looking for more confirmations of RS-15 coming back.

[ANS thanks John, KD6PAG for RS-15 information]
[06202004]
=====
LO-19 LUSAT
Catalog number: 20442
Launched: January 22, 1990

Status: CW Beacon only

Uplink:             145.84 145.86 145.88 145.90 MHz FM
                    (using 1200-baud Manchester FSK)
CW downlink:        437.125 MHz
Digital downlink:   437.150 MHz SSB (RC-BPSK 1200-baud PSK)
Broadcast Callsign: LUSAT-11
BBS:                LUSAT-12o
```

General information and telemetry samples can be found at:
www.telecable.es/personales/ea1bcu
[05232004]
=====
FO-20 JAS-1b
Catalog number: 20480
Launch Date: February 07, 1990

Status: Non-Operational

Uplink: 145.90 to 146.00 MHz CW/LSB
Downlink: 435.80 to 435.90 MHz CW/USB
Beacon: 435.795

More FO-20 info can be found at:
http://www.amsat.org/amsat/sats/n7hpr/fo20.html
[08152004]
=====
KO-23 KITSAT
Catalog number: 22077
Launched: August 10, 1992

Status: Non-operational

Uplink: 145.900 MHz FM (9600-baud FSK)
Downlink: 435.170 MHz FM
Broadcast Callsign: HLO1-11
BBS: HLO1-12

Jim, AA7KC, reports that KO-23's downlink transmitter continues in a
non-operational status.
[05092004]
=====
KO-25 KITSAT
Catalog number: 22828
Launched: September 26, 1993

Status: Non-operational

Uplink: 145.980 MHz FM (9600-baud FSK)
Downlink: 436.500 MHz FM
Broadcast Callsign: HL02-11
BBS: HL02-12
[05092004]
=====
PO-34 PANSAT
Catalog number: 25520
Launched: October 30, 1998

Status: Telemetry downloads only

Uplink/downlink frequency (listed on the PanSat web site) 436.500 MHz

The satellite is not available for general uplink transmissions.

The Naval Postgraduate School developed PanSat. At the time of
launch, PanSat spread-spectrum digital transponders were to
be available to Amateur Radio operators along with software to utilize
this technology.

The satellite is still operating, however, the spread spectrum packet
radio portion never took place. The spacecraft is now beyond it's
initial 2-year mission life, but telemetry records are still being
downloaded.

For more information, visit the official PanSat web site at:
http://www.sp.nps.navy.mil/pansat/
[05092004]
=====
SO-33 SEDSAT-1
Catalog number: 25509
Launched: October 24, 1998

Status: Semi-operational

Downlink: 437.910 MHz FM (9600-baud FSK)

The satellite is not currently available for uplink transmissions and
the image and transponder recovery efforts have been unsuccessful.

For more information on SedSat-1 visit the satellite web site:
http://seds.uah.edu/projects/sedsat/sedsat.htm

[ANS has no further information]
[05232004]
=====
SO-35 SUNSAT
Catalog Number: ?
Launched:February 23, 1999

STatus: Non-Operational

Downlink: Mode B Repeater: 436.291 MHz
Mode J Digipeater: 436.250 MHz

Uplinks: Mode B Repeater: 145.825 MHz
Mode J Digipeater: 145.825 MHz and 145.900 MHz

For more information of SUNSAT vist the satellite web site:
http://esl.ee.sun.ac.za/projects/sunsat/
[08082004]
=====
UO-36 UoSAT-12
Catalog number: 25693
Launched: April 21, 1999

Status: Unknown

Uplink: 145.960 MHz (9600-baud FSK)
Downlink: 437.025 MHz 437.400 MHz
Broadcast Callsign: UO121-11
BBS: UO121-12

The VK5HI viewer shareware for UO-36 is available on the AMSAT-NA
web site at the following URL:
ftp://ftp.amsat.org/amsat/software/win32/display/ccddsp97-119.zip
[05092004]
=====
AO-40 AMSAT OSCAR 40
Catalog number: 26609
Launch Date: November 16, 2000

Status: Non-Operational

Uplink V-band 145.840 - 145.990 MHz CW/LSB
U-band 435.550 - 435.800 MHz CW/LSB
L1-band 1269.250 - 1269.500 MHz CW/LSB
L2-band 1268.325 - 1268.575 MHz CW/LSB

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          S1-band   2400.350 - 2400.600 MHz CW/LSB
Downlink: S2-band   2401.225 - 2401.475 MHz CW/USB
          K-band 24,048.010 - 24,048.060 MHz CW/USB
Beacon:   2401.323, 24,048.035
[05232004]
-----
SO-42  SAUDISAT-1B
Catalog number: 26549
Launched: September 26, 2000

Status: Non-Operational

Uplink:   to be released
Downlink:           437.075 MHz
Broadcast Callsign: SASAT2-11
BBS:                SASAT2-12

Further information is available at:
http://www.amsat.org/amsat/sats/n7hpr/so42.html
[08152004]
=====
SO-41  SAUDISAT-1A
Catalog number: 26545
Launch Date: September 26, 2000

Status: Non-Operational

Uplink:             145.850 MHz
Downlink:           436.775 MHz
Broadcast Callsign: SASAT1-11
BBS:                SASAT1-12

Further information is available at:
http://www.amsat.org/amsat/sats/n7hpr/so41.html
[08152004]
=====
NO-44 PCSAT
Catalog number: 26931
Launch Date: September 30, 2001

Status: Non-Operational?????

Uplink/downlink:   145.827 MHz 1200 baud AX.25 AFSK via W3ADO-1
Aux/Uplink:        435.250 MHz 9600 baud via PCSAT-2 (off)
APRS Downlink:     144.390 MHz (Region 2)

This from Bob, WB4APR:
PCsat returned to negative-power-budget mode on 16 Feb 2005 and is not
expect- ed to be restorable until the next full-sun period in the Fall
when the southern Sun can better illuminate the south facing panel.
Between now and then you are welcome to try to get a packet digipeated,
but this will usually only work during mid-day passes in the Northern
Hemisphere due to sun angles.

Question asked of Bob WB4APR recently on the amsat-bb:
Is it alive??  I was just looking at the pcsat.aprs.org  page at Findu
and it shows a lot of stations recently (within the last day) digipeating
through it.

Bob's reply:
PCsat is always "alive", but can only muster enough
power to get out a complete packet when it is in
near mid-day sun in the Northern hemisphere the
higher the latitude the better in the summer.
```

Over the next 2 weeks PCsat is entering one of thoes
periods.  The 20 or so stations you see on the LIVE
web page are probably unattended beacons.  But
if u hear good packets on 145.825 from PCsat during
mid-day, go ahead and use it...

Fortunately it will be in 100% sun during FD, but
Unfortunately, all that sun is from the side and
misses the best solar panel.  Experience has shown
it will be useless at that time.

PCSat is a 1200-baud APRS digipeater designed for use by stations using
hand-held or mobile transceivers. Downlinks feed a central web site at:
http://pcsat.aprs.org

The APRS-equipped PCSat was built by midshipmen from the U.S. Naval Academy
under the guidance of Bob Bruninga, WB4APR.
[05242005]
=====
NO-45 SAPPHIRE
Catalog number: 26932
Launch Date: September 30, 2001

Status: Non-Operational

Downlink: 437.095 MHz 1200 baud AX-25 AFSK
Uplink:   145.945 MHz UI Digipeater
Digi Callsign: KE6QMD

Everyone is  welcome to use the digipeating/APRS features of Sapphire,
callsign KE6QMD, as per the user service agreement located at the following
URL:
http://web.usna.navy.mil/~bruninga/pcsat/contract.txt
[03132005]
=====
AO-49 AATiS OSCAR-49 (SAFIR-M)
Catalog number: 27605
Launch Date: December 20, 2002

Status: Semi-operational.

Uplink 435.275 1200-baud AFSK
Downlink 145.825 9600-baud FSK
(optional voice message)
Broadcast callsign: DP0AIS

AO-49 (SAFIR-M) is a German amateur radio payload onboard the small German
scientific satellite "RUBIN-2".

AO-49 was built by the German amateur radio association "AATiS
e.V." (German
acronym for "Arbeitskreis Amateurfunk und Telekommunikation in der Schule",
which means: 'working group for amateur radio anand telecommunications in
schools'). AO-49 is designed as a "store and broadcast" system for APRS
based messages, dedicated for the use of schools in combination with the
existing WX-Net and planned buoy experiments in Germany.

No transmissions detected since the 1st of February 2003! It appears
AO-49 is not properly aligned to illuminate the solar panels. This
should end soon. Due to its orbit, AO-49 will be in a phase without
eclipses until 13Feb03.

Martin DG8UAU has written a small software program "SAFIR-M Decoder" to

allow decoding of the received DATA0 frames. It is available at:
http://amend.gmxhome.de in the section Aktuelles.

Details on AO-49 (SAFIR-M) can be found at:
http://amend.gmxhome.de

Information about AATiS e.V. is available at:
http://www.aatis.de
[05092004]
=====
CUTE-1
Catalog number: 27844
Launched: June 30,2003

Status: Operational?

Uplink: ?
Downlink: 436.8375 CW
437.4700 1200 FM ax25 or SRLL (ACTIVE only near Japan)

Fernando, LU1HKO, reports hearing Cute-1 on 03/06/2005 18:40 (LU Time)
sending
CW telemetry.

CUTE 1 is a Japanese (Tokyo Institute of Technology) one kilogram
nanosatellite that was launched by a Rokot rocket from Plesetsk at
14:15 UT on 30 June 2003. It carries a 100 mW beacon at 436.8375 MHz.
Initial orbital parameters were period 101.4 min, apogee 831 km, perigee
819 km, and inclination 98.7?.

For further info about CUTE-1 goto:
http://lss.mes.titech.ac.jp/ssp/cubesat/operation/Schedule_e.html

ANS WSR is looking for more information about this satellite.
[03272005]
NNNN
/EX

SB SAT @ AMSAT <KB9MMC $ANS-177.S4
WSR 177 Part 4 06/26/2005

AMSAT NEWS SERVICE BULLETIN 177.S4 FROM AMSAT HQ
SILVER SPRING, MD, JUNE 26, 2005
TO ALL RADIO AMATEURS
BID: $ANS-177.S4

THE FOLLOWING SATELLITES ARE NOT IN ORBIT BUT ARE
PROPOSED FOR LAUNCH AT THIS TIME:

UCISAT ?O-??
Catalog number:
Proposed Launch Date: October 31, 2005

Status: Under Construction

Downlink: Submission in Progress
Uplink: Submission in Progress
Callsign: Submission in Progress

This from Matt Bennett, KF6RTB, UCISAT Communications Team Member:

Our website is www.ucisat.net .This is a new website, however, and doesn't
have the "Status" section active yet. Because of the growing interest in our
project, I'll push our webmaster to create updates (hopefully) on a week-to-

week basis. For now, the current status of the mission is as follows:

-Expected Launch Date: October 31st, 2005
-Frequency Allocation: Submission in Progress
-Construction Status: Sub-Assembly
[WSR to thank Matt Bennett, KF6RTB, for this week's report.]
[01302005]
=====
SSETI ?O-??
Catalog Number:
Proposed Launch Date: Early 2005

Status: Under Construction

During the last week, the completed modules have been fitted to the spaceframe and the wiring harness and integration completed. The satellite was  moved on Wednesday to an anechoic chamber for EMC testing to ensure that the emissions from the satellites electronics, the 3W UHF transmitter and the S Band TX meet the spectral requirements of the launch agency and SSTL.

Several new pictures showing the rapid progress over the last 2 weeks have been uploaded to the SSETI Website. These include detailed shots of the S Band unit now wired to the antennas, cold gas propulsion and some taken inside the anechoic chamber.
http://sseti.gte.tuwien.ac.at/WSW4/express5.php

[ANS thanks David, G0MRF for the above information]

Looking at the website for the SSETI Express webcam
http://sseti.gte.tuwien.ac.at/WSW4/webcam.htm

[04102005]
=====
PCSAT2 ?0-??
Catalog Number:
Proposed Launch Date: May 2005

PCSAT2, which had previously been stowed in the Space Shuttle Discovery, arrived at Launch Complex 39B on 07 April 2005.  PCSAT2 is now standing by ready to be launched on the first Space Shuttle return-to-flight mission.

PCSAT2 will use the same dual redundant AX.25 command and control system as used on PCsat (NO-44) offering 8 on/off commands, 5 telemetry channels and a serial port for the solar cell experiment telemetry. It also supports the Digital Comms Relay support of the PCsat/APRS mission. The packet uplink is on 145.825 MHz and the default downlinks are in the 435 MHz band to avoid any possible interference with existing ARISS missions. PCSAT2 will have quad redundant transmit inhibits for EVA safety issues, thus, it is also easy to turn off to avoid any issues with other UHF ARISS experiments that may be activated in the future. Also, the mission lifetime of PCSAT2 is only 1 year, because it is a sample-return mission, thus terminating any long term conflicts in spectrum management.

The PCSAT2 mission is intended as an opportunity to augment existing ARISS communications experiments with an external autonomous communications payload. In this regard, it has several potential uses:

* A UI-Digipeater to help ease congestion on the currently shared ARISS PMS (Packet Mail system)

* A PSK-31 transponder for multi-user communications to improve

accessibility for schools and ARISS outreach programs.

* An FM Voice repeater for full duplex crew communications to facilitate crew-to-school ARISS contacts.

* Routine Telemetry on the spacecraft systems

For more information and pictures visit the PCSAT2 website at
http://www.ew.usna.edu/~bruninga/pcsat2.html

[ANS thanks Bob, WB4APR for the above information]
[04102005}
=====
PHASE 3E ?O-??
Catalog Number:
Proposed Launch Date: Early 2006

Status: Under Construction

The AMSAT-Phase 3E satellite (P3E) is dedicated as communication and scientific platform for a highly elliptical orbit around Earth. The spacecraft will be created in a joint process together with the P5A Mars mission by an international team under leadership of AMSAT-DL and continues the successful series of AMSAT-Phase 3 satellites. Additionally the spacecraft will be a test bench for technology developped for the Mars mission. The main task of P3E is to act as communication platform for radio amateurs worldwide. A launch is planned in the period 2004 to 2006.

For the latest project status update please visit the AMSAT-DL P3-E web page:
http://www.amsat-dl.org/p3e/
[03272005]
=====
CP1 ?o-??
Catalog Number:
Proposed Launch Date: Mid May 2005

Proposed Callsign: N6CP
Proposed Transmit Frequency: 436.845
[03272005]
=====
CP2 ?O-??
Catalog Number:
Proposed Launch Date: Mid May 2005

Proposed Callsign: TBA
Proposed Transmit Frequency: 437.325
[03272005]
=====
HAUSAT1 ?O-??
Catalog Number:
Proposed Launch Date: Mid May 2005

Proposed Callsign: D90HP
Proposed Transmit Frequency: 437.465
[03272005]
=====
ICE Cube 1 ?O-??
Catalog Number:
Proposed Launch Date: Mid May 2005

Proposed Callsign: W2CXM
Proposed Transmit Frequency: 437.305

[03272005]
=====
ICE Cube 2 ?O-??
Catalog Number:
Proposed Launch Date: Mid May 2005

Proposed Callsign: N2VR
Proposed Transmit Frequency: 437.425
[03272005]
=====
ION ?O-??
Catalog Number:
Proposed Launch Date: Mid May 2005

Proposed Callsign: TBA
Proposed Transmit Frequency: 437.505
[03272005]
=====
KUTEsat ?O-??
Catalog Number:
Proposed Launch Date: Mid May 2005

Proposed Callsign: KC0RMW
Proposed Transmit Frequency: 437.385
[03272005]
=====
MEROPE ?O-??
Catalog Number:
Proposed Launch Date: Mid May 2005

Proposed Callsign: K7MSU-1
Proposed Transmit Frequency: 145.980
[03272005]
=====
nCUBE1 ?O-??
Catalog Number:
Proposed Launch Date: Mid May 2005

Proposed Callsign: TBA
Proposed Transmit Frequency: 437.305
       2407.25
[03272005]
=====
RINCON ?O-??
Catalog Number:
Proposed Launch Date: Mid May 2005

Proposed Callsign: WA4CEW
Proposed Transmit Frequency: 436.870
        437.345
[03272005]
=====
SACRED ?O-??
Catalog Number:
Proposed Launch Date: Mid May 2005

Proposed Callsign: WA4CEW
Proposed Transmit Frequency: 436.870
[03272005]
=====
SACRED ?O-??
Catalog Number:
Proposed Launch Date: Mid May 2005

Proposed Callsign: WA4CEW
Proposed Transmit Frequency: 436.870
[03272005]
=====
SEEDS ?O-??
Catalog Number:
Proposed Launch Date: Mid May 2005

Proposed Callsign: JQ1YGU
Proposed Transmit Frequency: 437.485
[03272005]
=====
Mea Huaka ?O-??
Catalog Number:
Proposed Launch Date: Mid May 2005

Proposed Callsign: TBA
Proposed Transmit Frequency: 437.405
[03272005]
NNNN
/EX

ANS is released worldwide via the AMSAT ANS e-mail reflector and a live radiocast on the AMSAT-NA 20-meter net held each Sunday on 14.282 MHz. Pre-net operations start at 18:00 UTC, with current ANS bulletins transmitted to the eastern U.S. at 19:00 UTC and to the western U.S. at 19:30 UTC.

Information on AMSAT-NA is available at the following URL:
http://www.amsat.org

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Silver Spring, Maryland 20910-4703

Voice: 301-589-6062
888-322-6728
FAX: 301-608-3410

Currently, AMSAT-NA supports the following (free) mailing lists:

* AMSAT News Service (ANS)
* General satellite discussion (AMSAT-BB)
* Orbit data (KEPS)
* Manned space missions (SAREX)
* District of Columbia area (AMSAT-DC)
* New England area (AMSAT-NE)
* AMSAT Educational Liaison mailing list (AMSAT-EDU)
* AMSAT K-12 Educational Liaison mailing list (AMSAT-K12)

A daily digest version is available for each list.

To subscribe, or for more list information, visit the following URL:
http://www.amsat.org/amsat/listserv/menu.html

In addition to regular membership, AMSAT-NA offers membership in the President's Club. Members of the President's Club, as sustaining donors to AMSAT Project Funds, will be eligible to receive additional benefits. Application forms are available from the AMSAT-NA Office.

This week's Weekly Satelite Report Editor is James K. Darrow, KB9MMC.

ANS is always dedicated to past ANS editor 'BJ' Arts, WT0N, and to the memory of longtime AMSAT supporters Werner Haas, DJ5KQ, Dennis Kitchen,

G0FCL and John Branegan GM4IHJ.

Please send any amateur satellite news or reports to:
ans-editor{at}amsat.org
NNNN
/EX
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